

Insert and bypass a test tool

Switch between a direct connection and your inline test equipment. Keep the bench wired as the experiment changes.

Planning template only. No tests have been run and no results are asserted.

01 Plan the evaluation

1. Establish the direct-path baseline

Install EtherShunt during an approved interruption. Connect the original endpoints to W1 and E1, the tool interfaces to W2 and E2, and USB-C to power and serial control. Start in bypass and verify the application works.

2. Insert your tool for the experiment

Prepare the external tool to forward traffic, then select the inline path over USB serial. Allow the links to renegotiate, verify application recovery, and run the test. EtherShunt selects the physical path; your tool performs the analysis.

3. Bypass, service, and repeat

Return to bypass before rebooting or updating the test platform. Confirm the direct-path application has recovered, then repeat the same procedure for the next run. Include path selection in your own test automation.

Setup checklist

- A compatible copper Gigabit Ethernet link and an approved interruption for initial installation and path changes.
- Your own inline test platform with two compatible network interfaces and working forwarding or proxy behavior.
- USB-C power and serial control. FID is optional, not required.

Scope and limits

- Not hitless: each transition interrupts traffic. Typical link renegotiation is 1-3 seconds; application recovery can take longer and must be measured on your equipment.
- Power-loss fallback restores the physical bypass path. A powered but unresponsive host requires the watchdog to have been armed and serviced correctly.
- EtherShunt does not capture, analyze, or modify traffic by itself. EtherShunt-integrated operation is limited to 1 GbE.

Offering: Hardware workflow. Confirm the delivered configuration before testing.

Record the result

Insert and bypass a test tool

Record both link recovery and application recovery. A relay changing state or a link LED returning does not establish that the system under test resumed normal operation.

Test owner

Date / run ID

Equipment / firmware / tool versions

Authorized scope and acceptance criteria (define before the test)

01 Direct-path baseline

Normal application behavior with the test tool bypassed.

☐ Not run ☐ Pass ☐ Fail ☐ Inconclusive

Observed behavior / evidence reference:

02 Insert the test tool

Link interruption, renegotiation, and application recovery.

☐ Not run ☐ Pass ☐ Fail ☐ Inconclusive

Observed behavior / evidence reference:

03 Return to bypass

Direct-path recovery before servicing the tool.

☐ Not run ☐ Pass ☐ Fail ☐ Inconclusive

Observed behavior / evidence reference:

04 Power-loss or armed-watchdog fallback

Path selection and end-to-end recovery under the defined failure condition.

☐ Not run ☐ Pass ☐ Fail ☐ Inconclusive

Observed behavior / evidence reference:

Recovery, unresolved questions, and next action

Attach additional evidence as needed. Keep completed records in your approved storage; this worksheet does not submit any data.